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Splitting properties of n-C.E. enumeration degrees

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Abstract

It is proved that if 1 < m < 2p ≤ n for some integer p then the elementary theories of posets of m-c.e. n-c.e. e-degrees are distinct. It is proved also that the structures □D2n ≤ P□ and □D2n ≤ P□ are not elementary equivalent where P is the predicate P(a) = "a is a π1 0 e-degree".